

FIG. 1

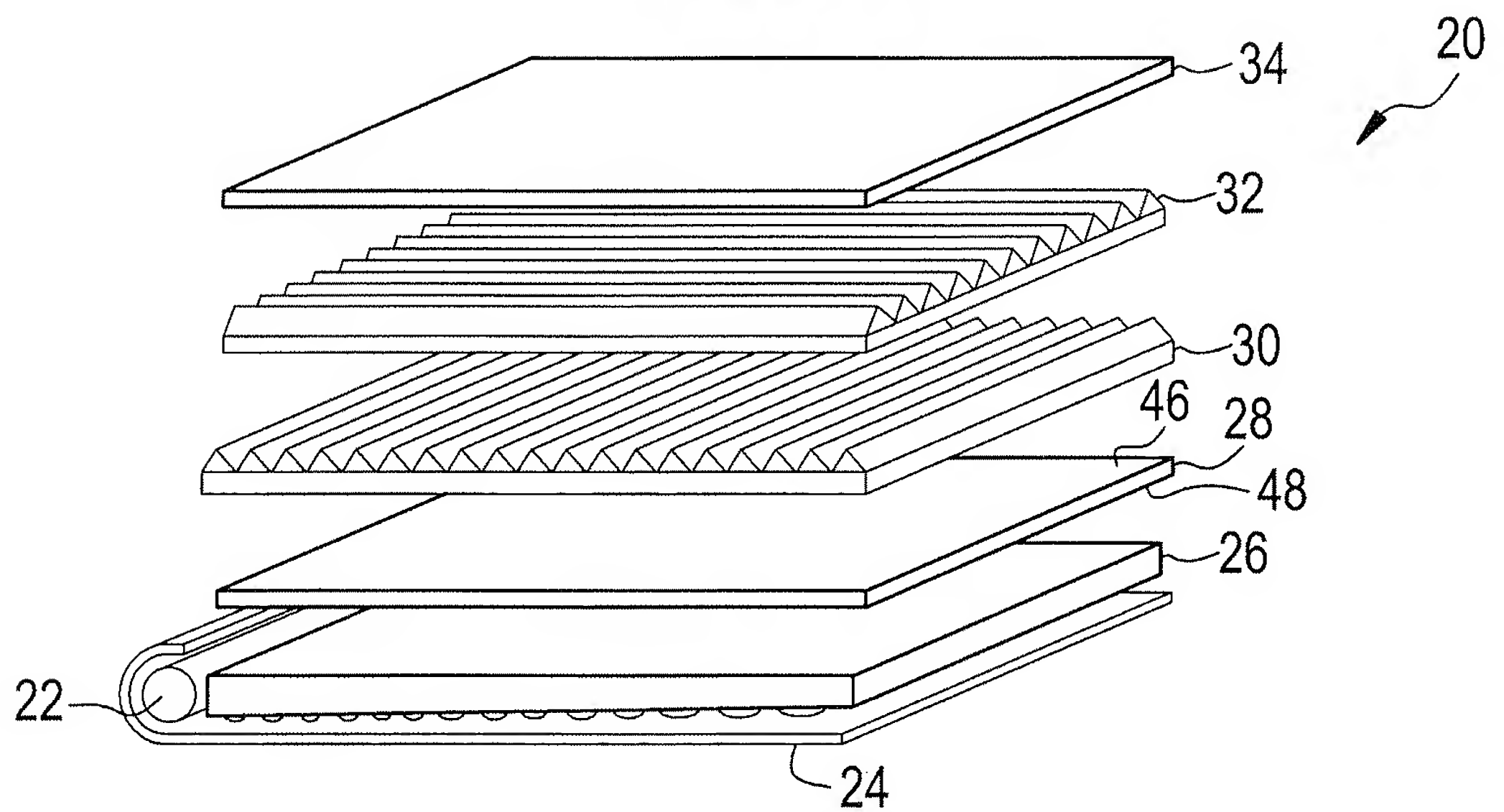


FIG. 2

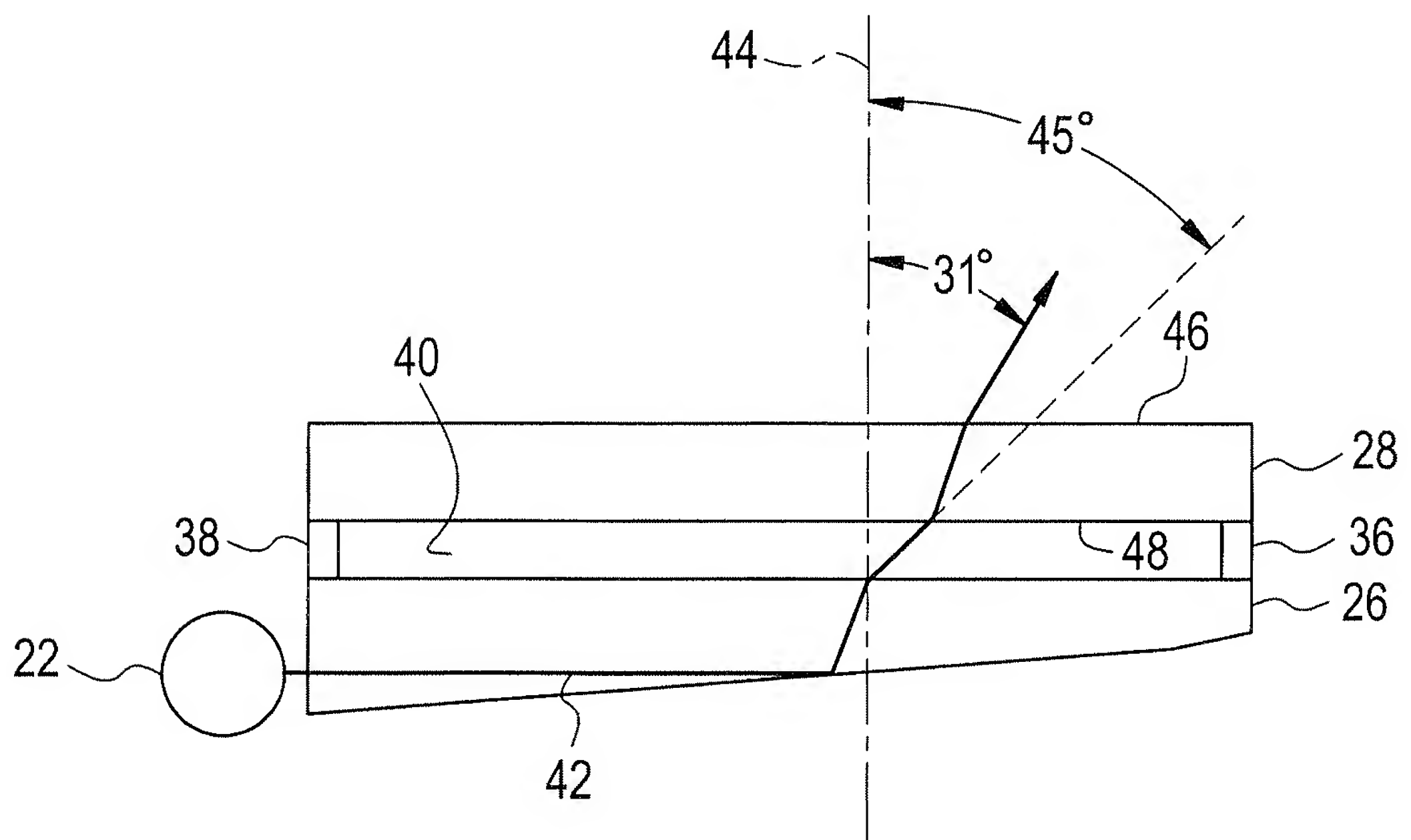


FIG. 3

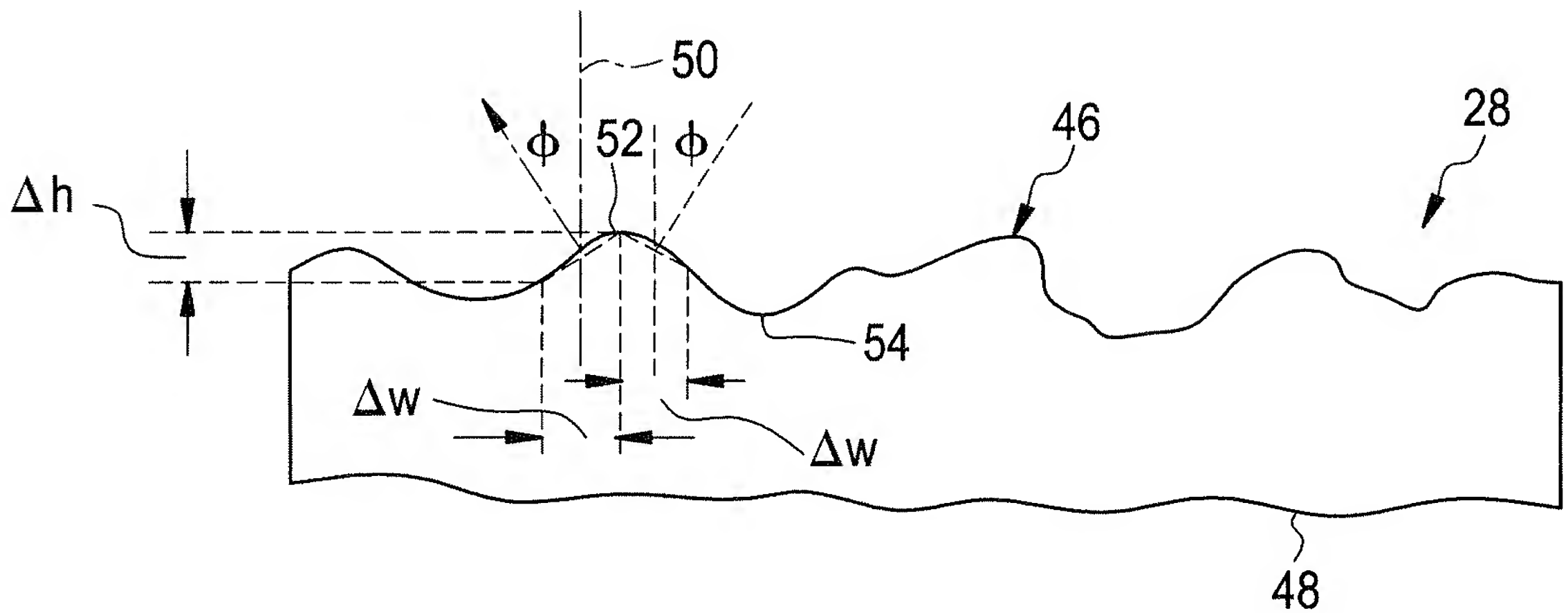
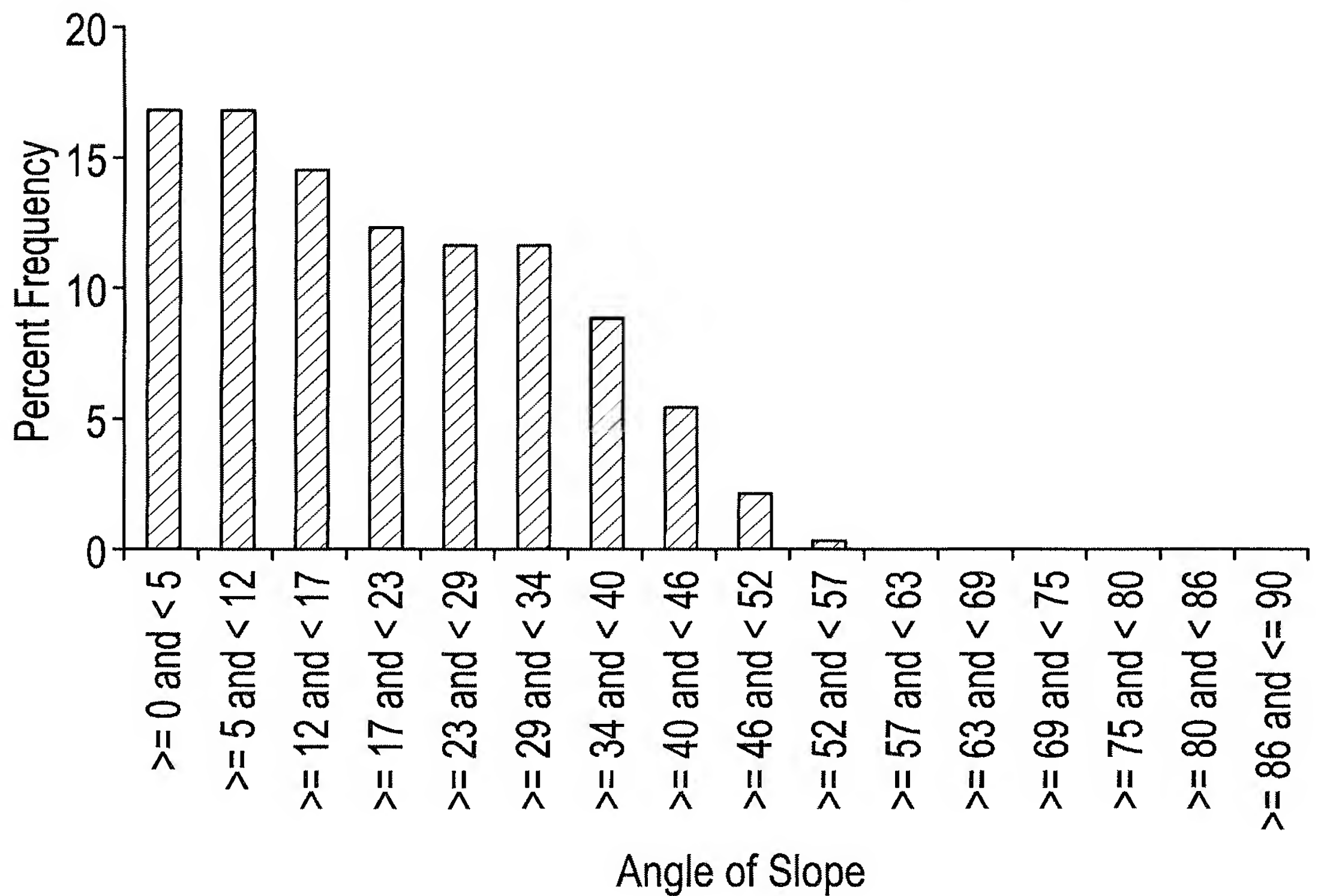


FIG. 4

Polymer Film Front Surface Slope Distribution



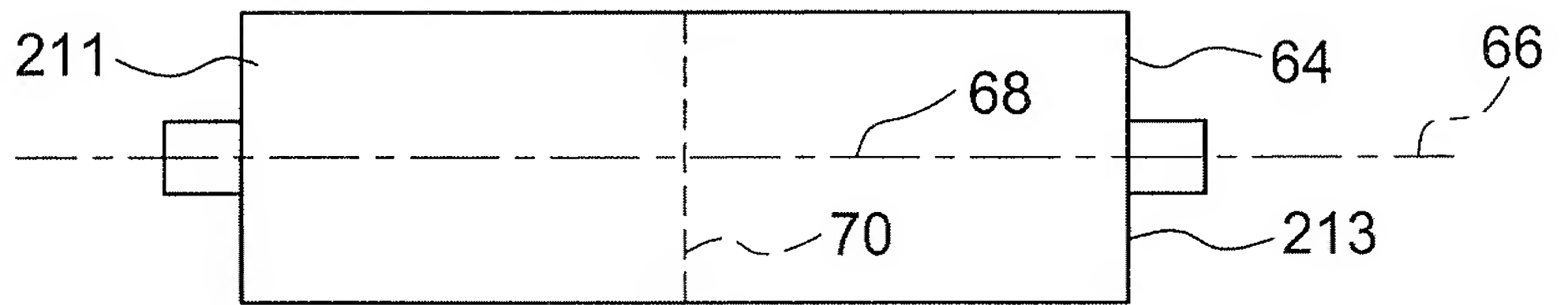
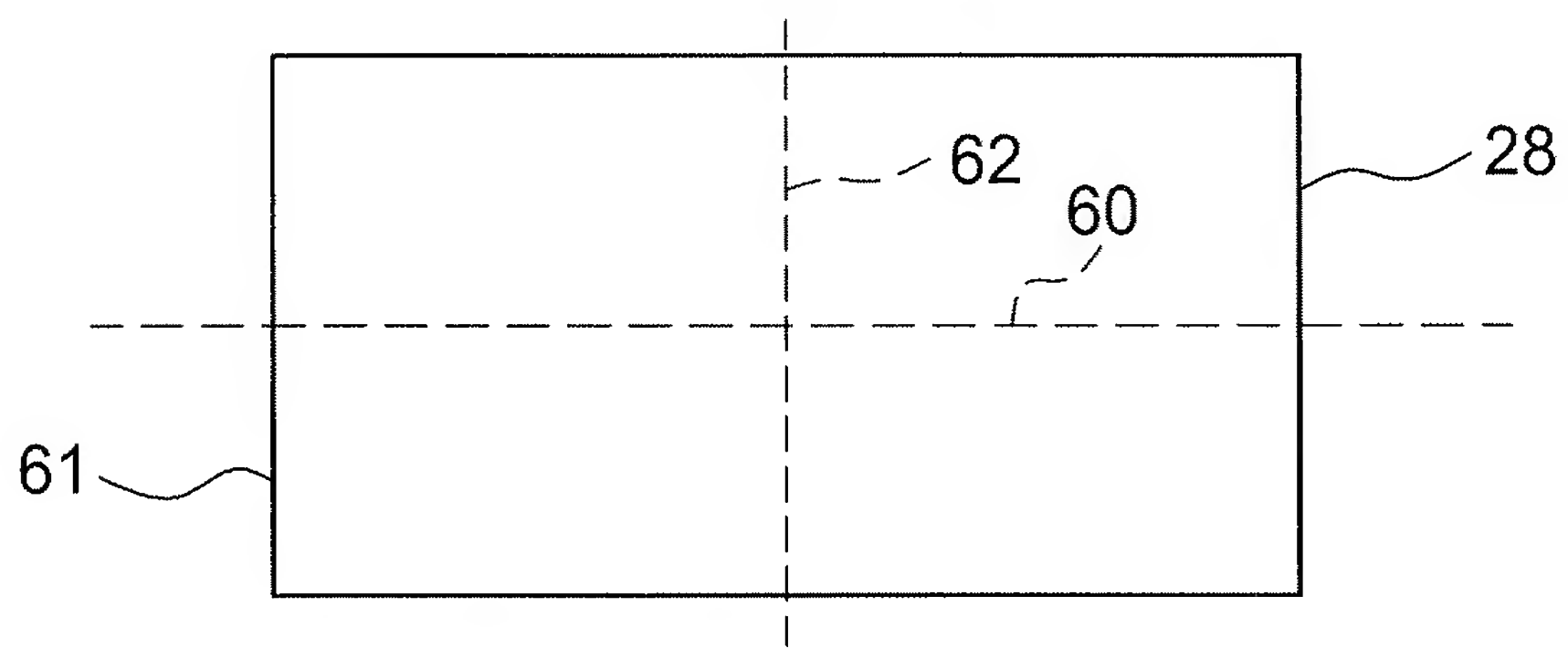
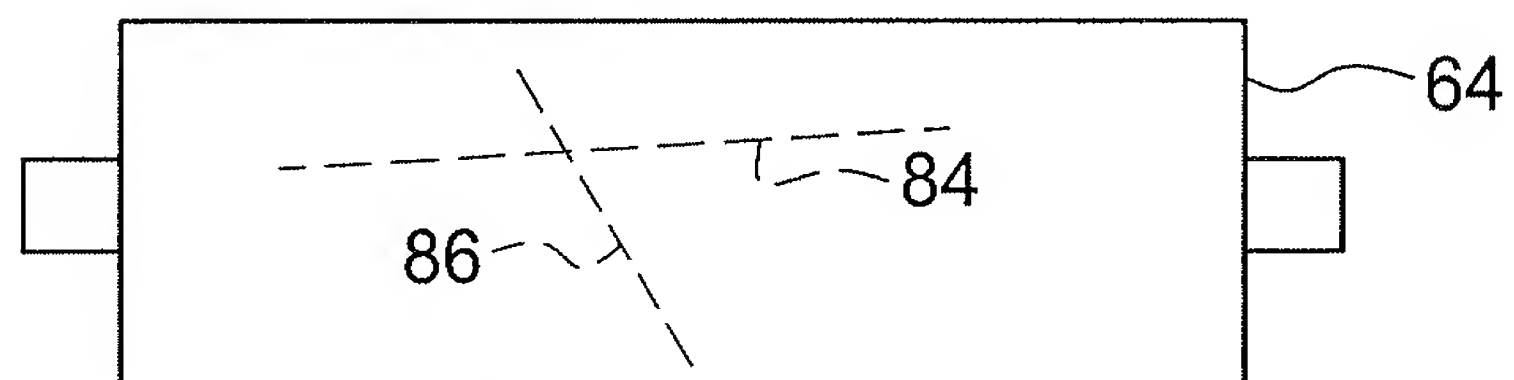
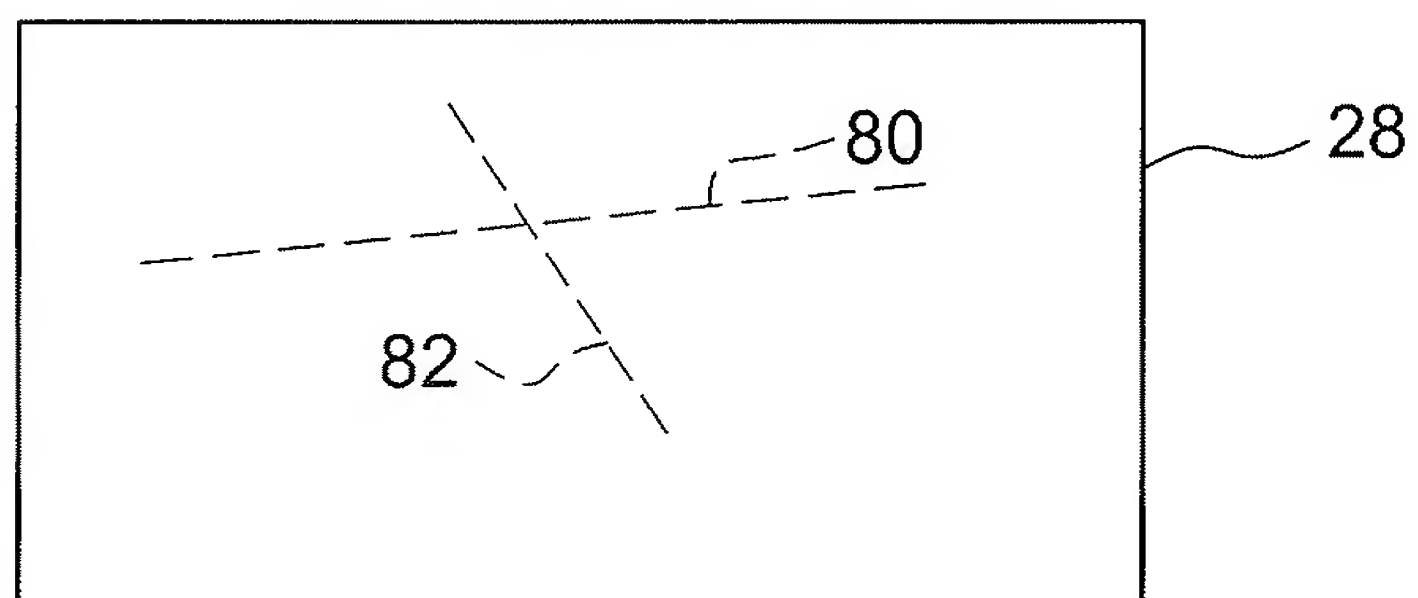
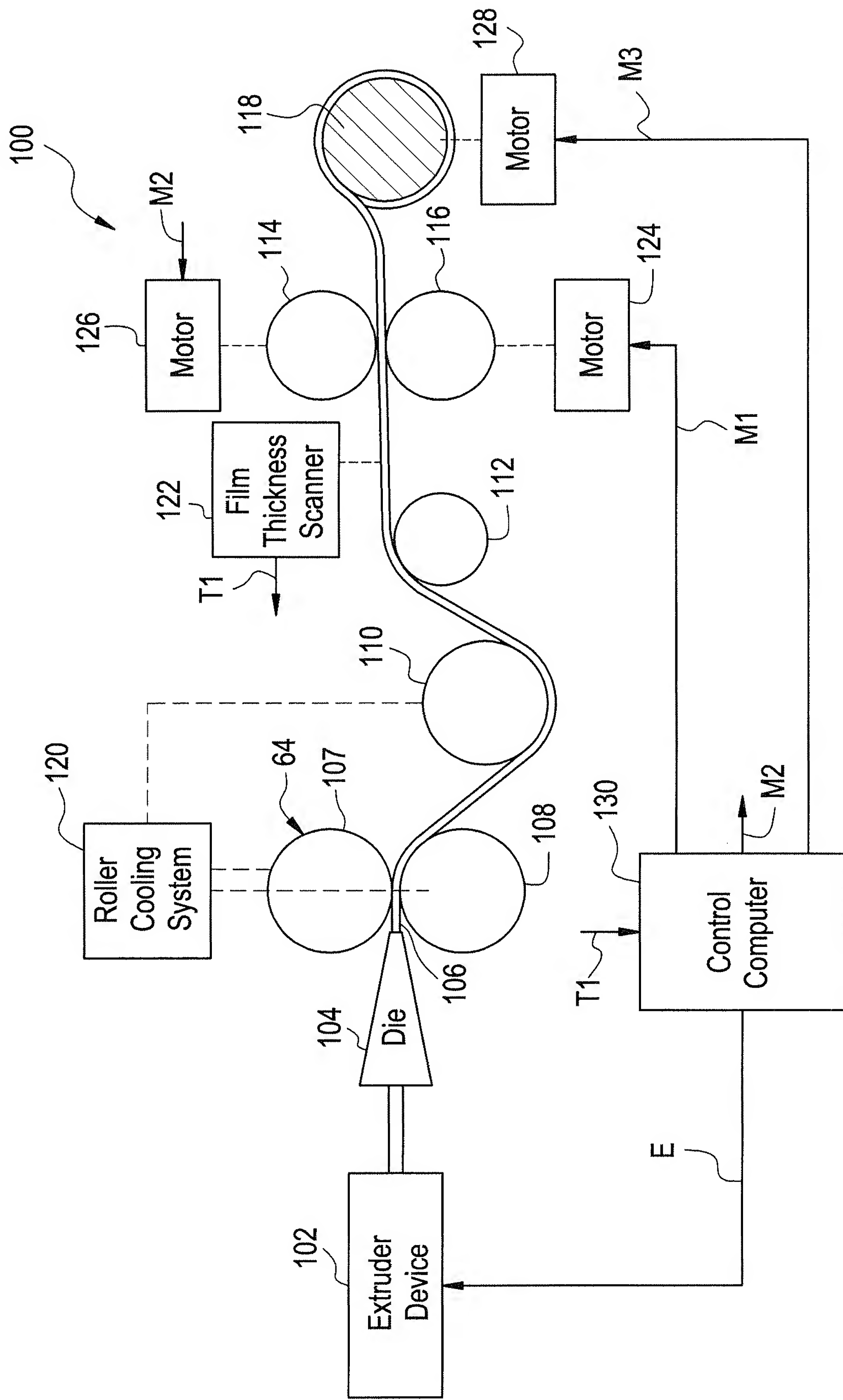
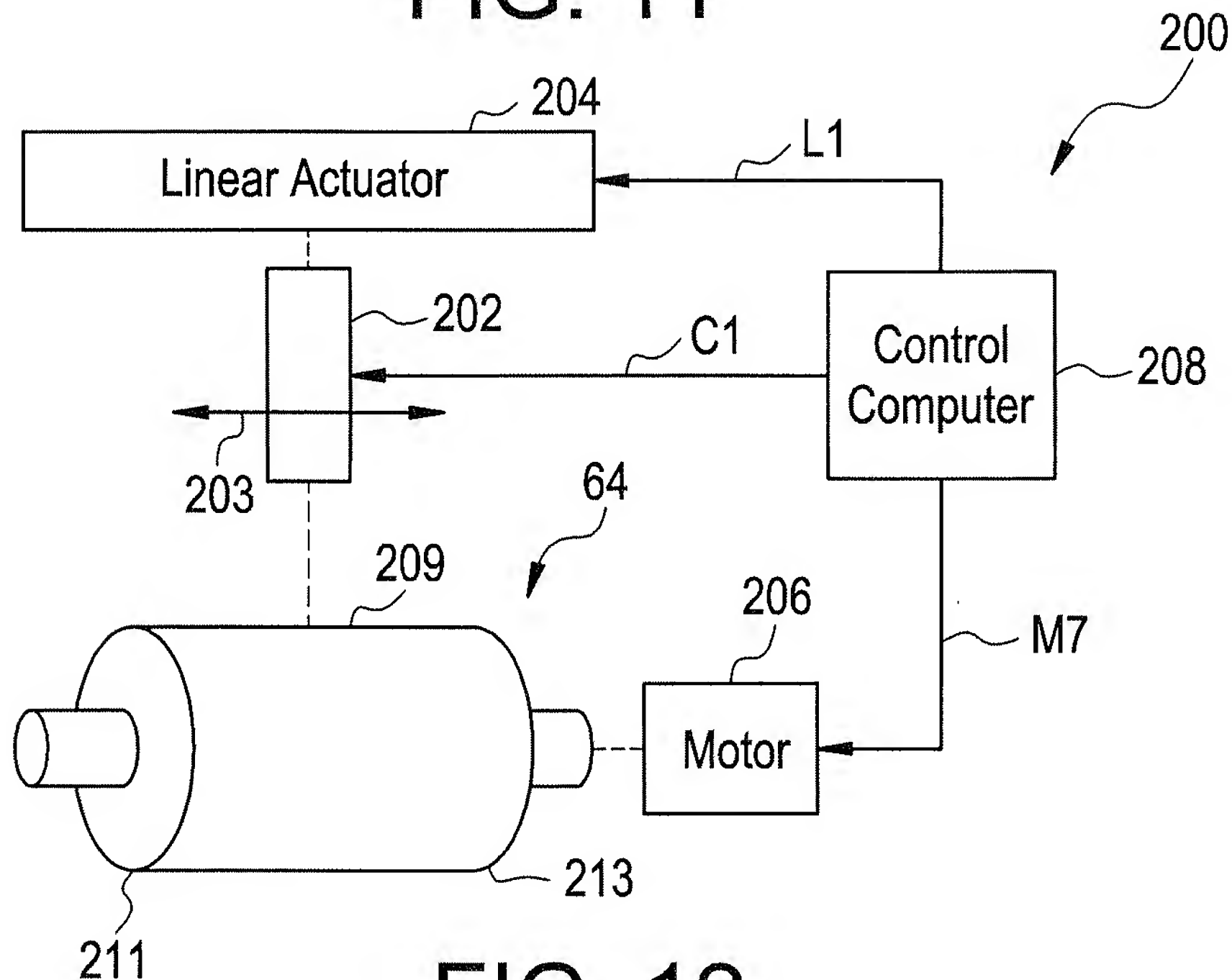
**FIG. 5****FIG. 6****FIG. 7****FIG. 8**

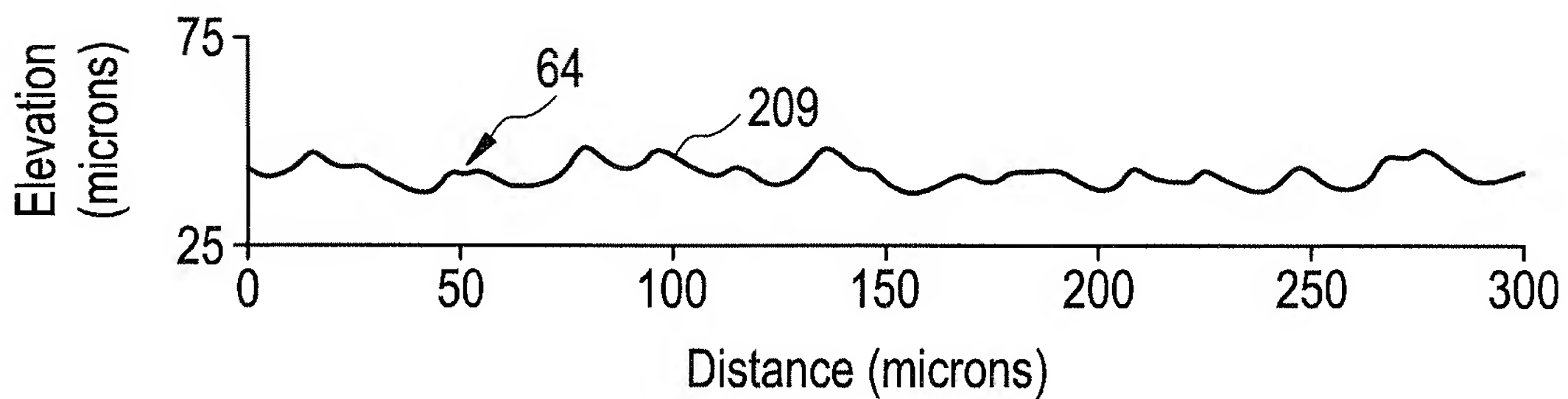
FIG. 9





**FIG. 11****FIG. 12**

Textured Surface on Cylindrical Roller Obtained  
Using Energy Beam Engraving Process

**FIG. 13**

Textured Surface on the Film using Cylindrical Roller Obtained  
from Energy Beam Engraving Process

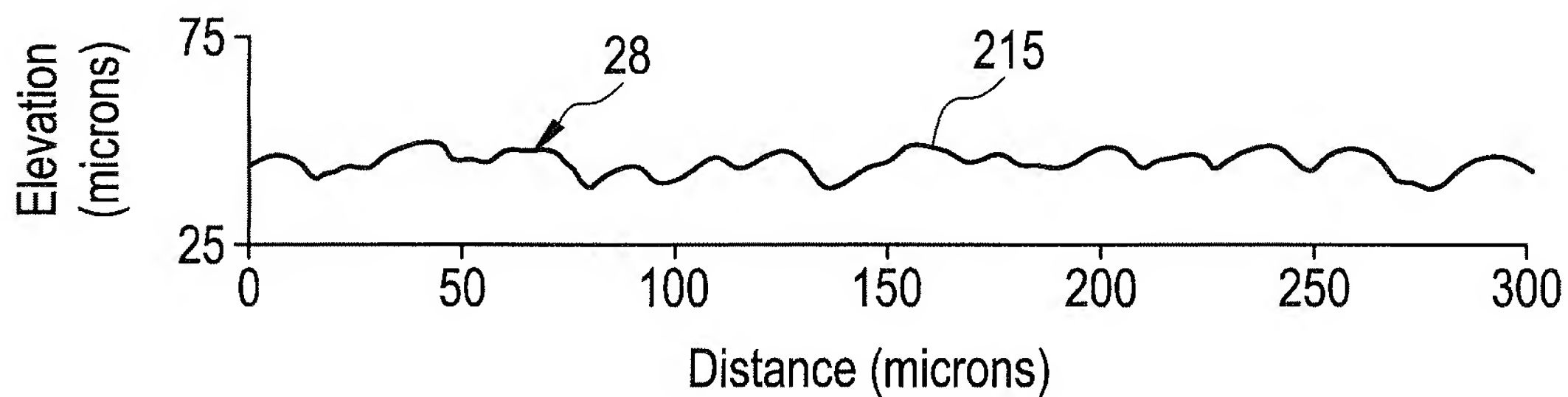
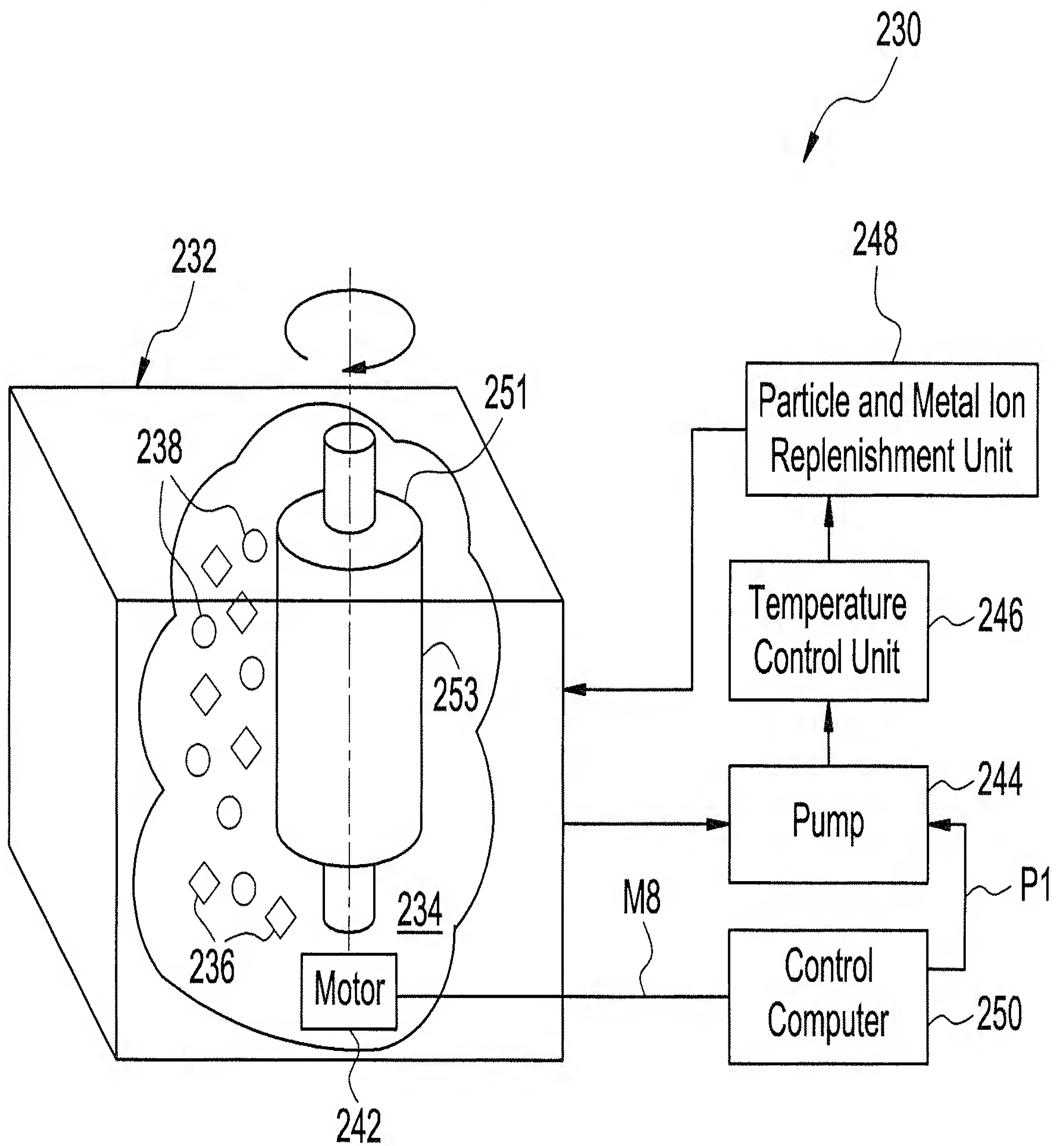
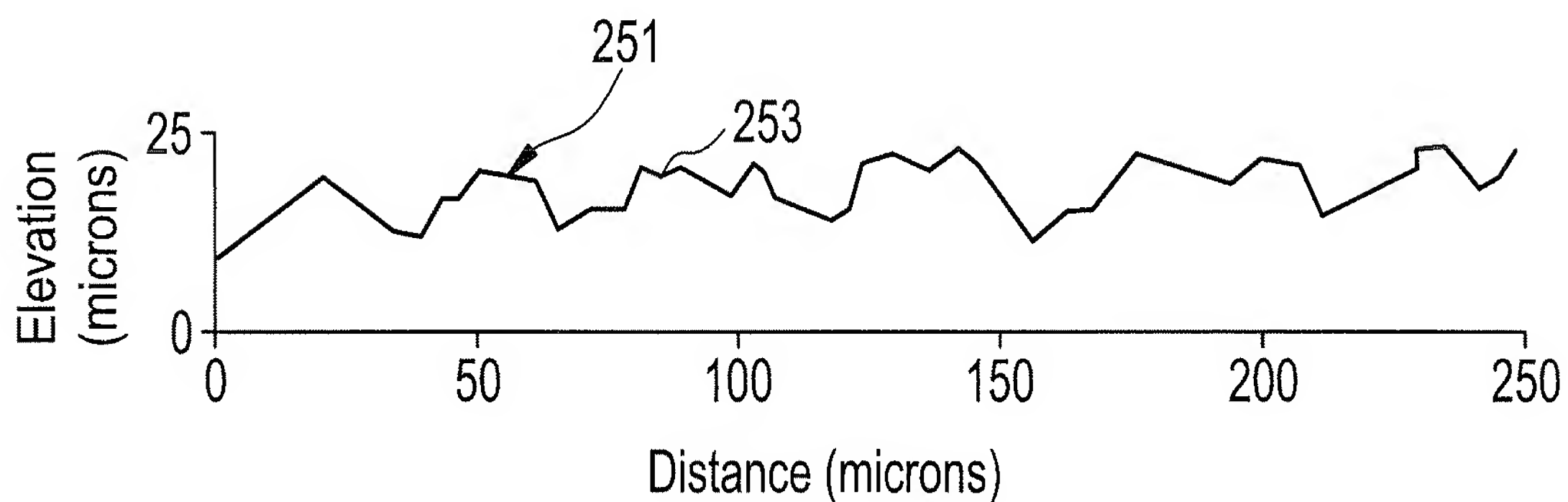


FIG. 14



## FIG. 15

Textured Surface on Cylindrical Roller Obtained  
using Partical-metal Co-deposition Process



## FIG. 16

Textured Surface on the Film using Cylindrical Roller Obtained  
from Particle-metal Co-deposition Process

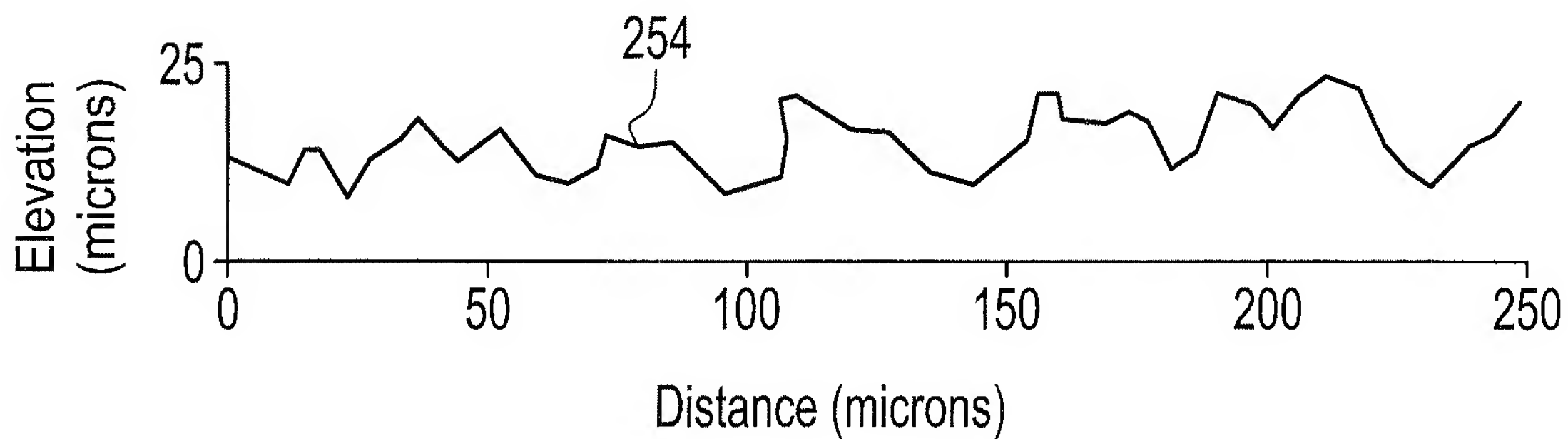






FIG. 18

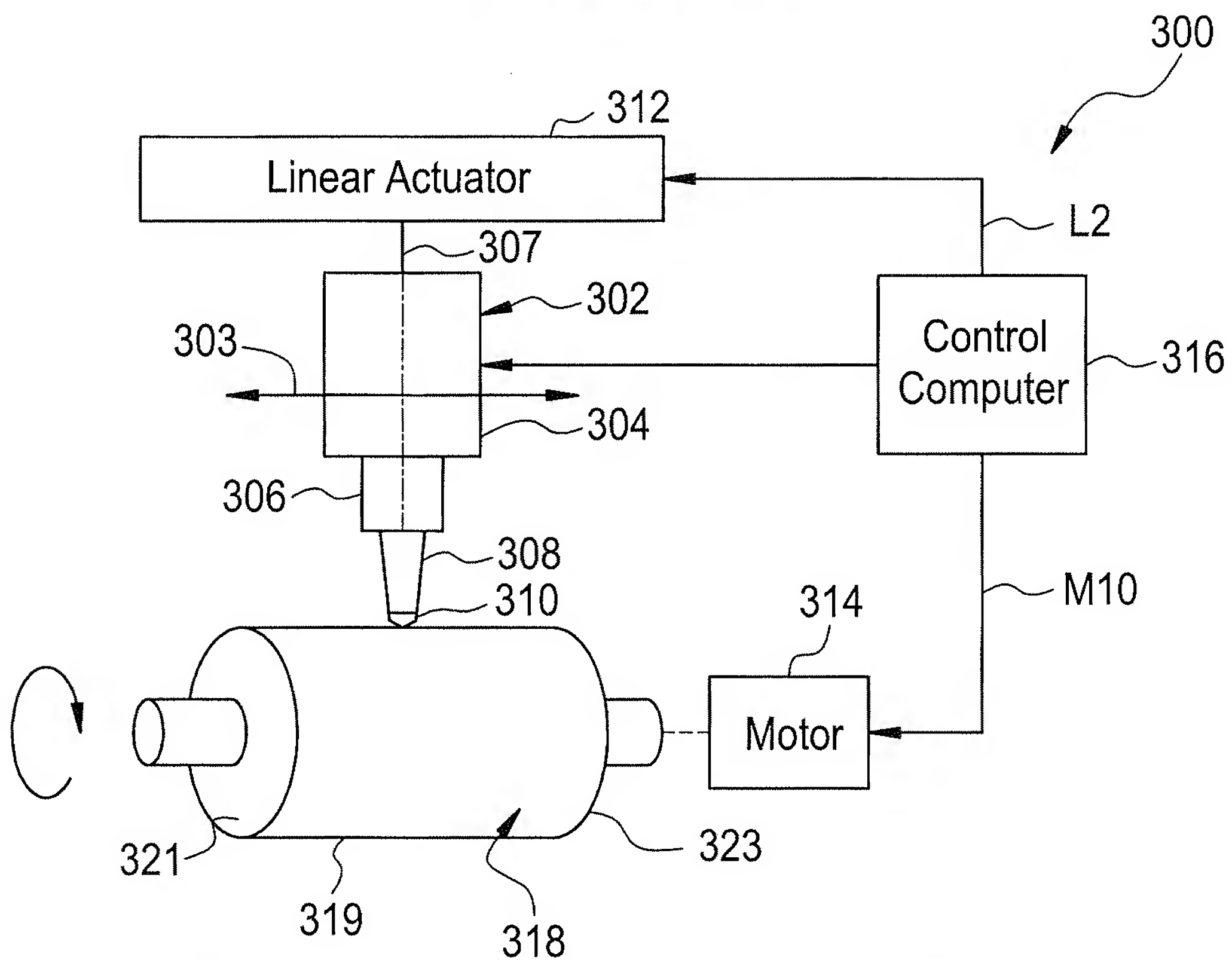


FIG. 19

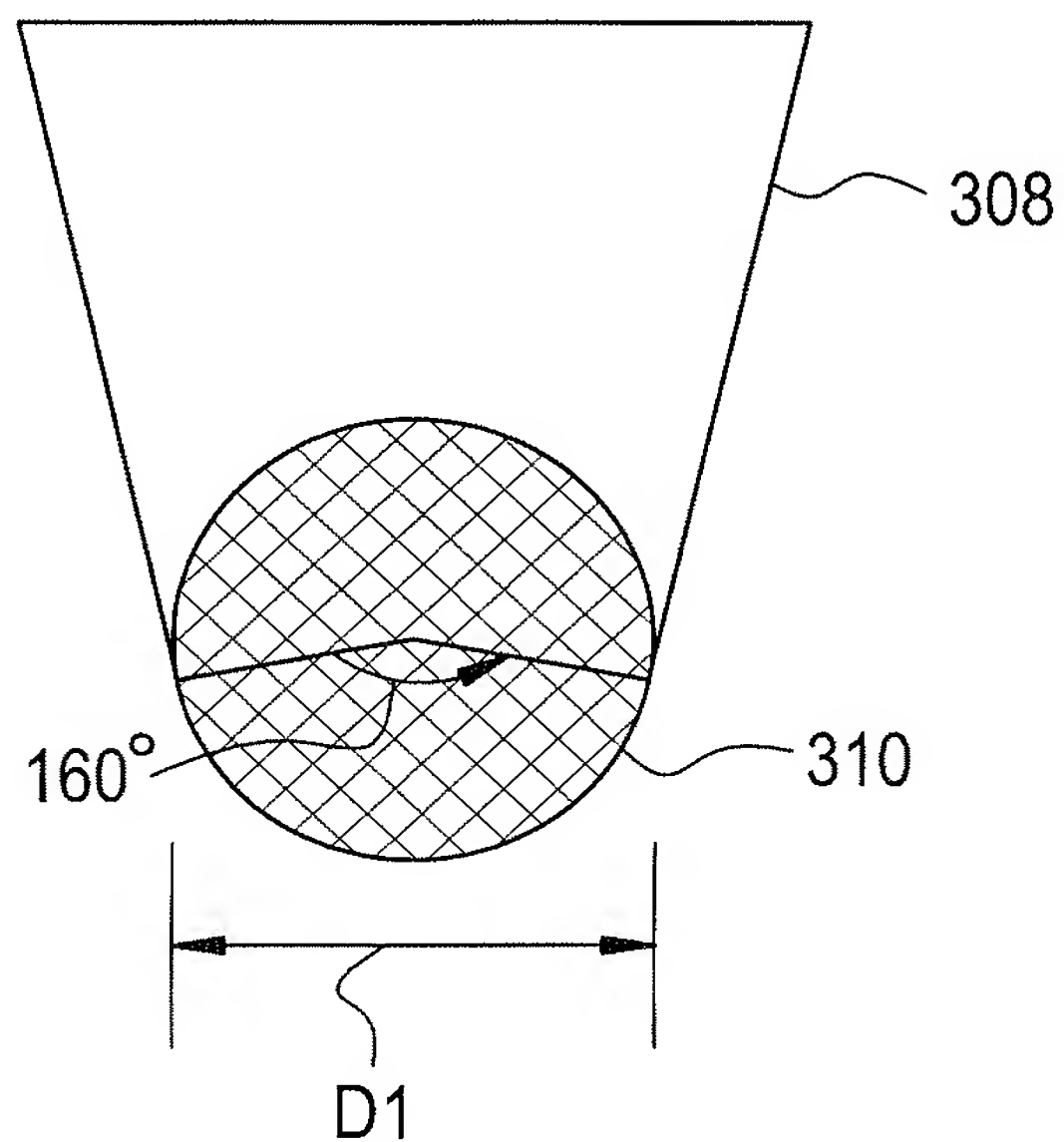


FIG. 20

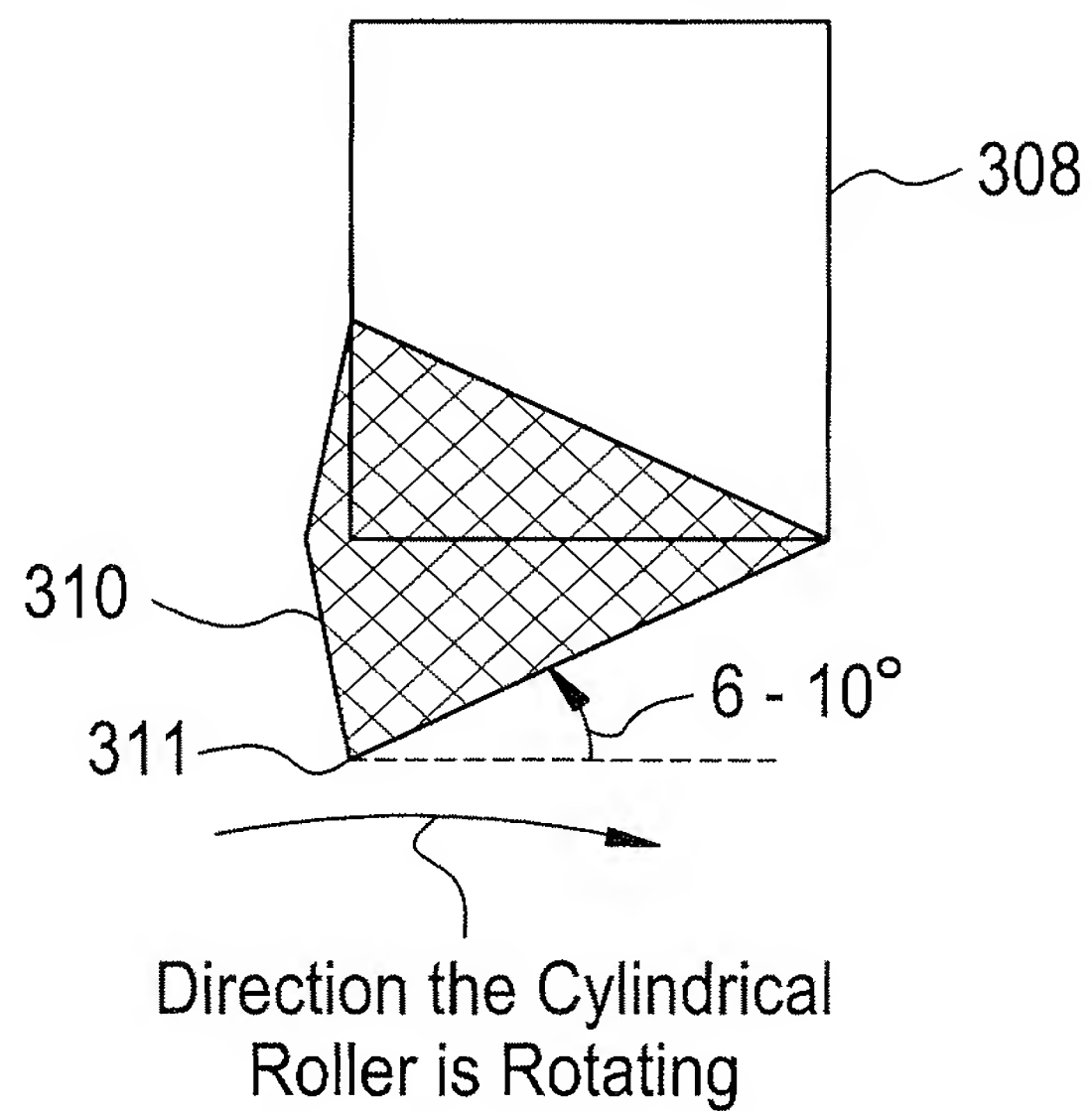


FIG. 21

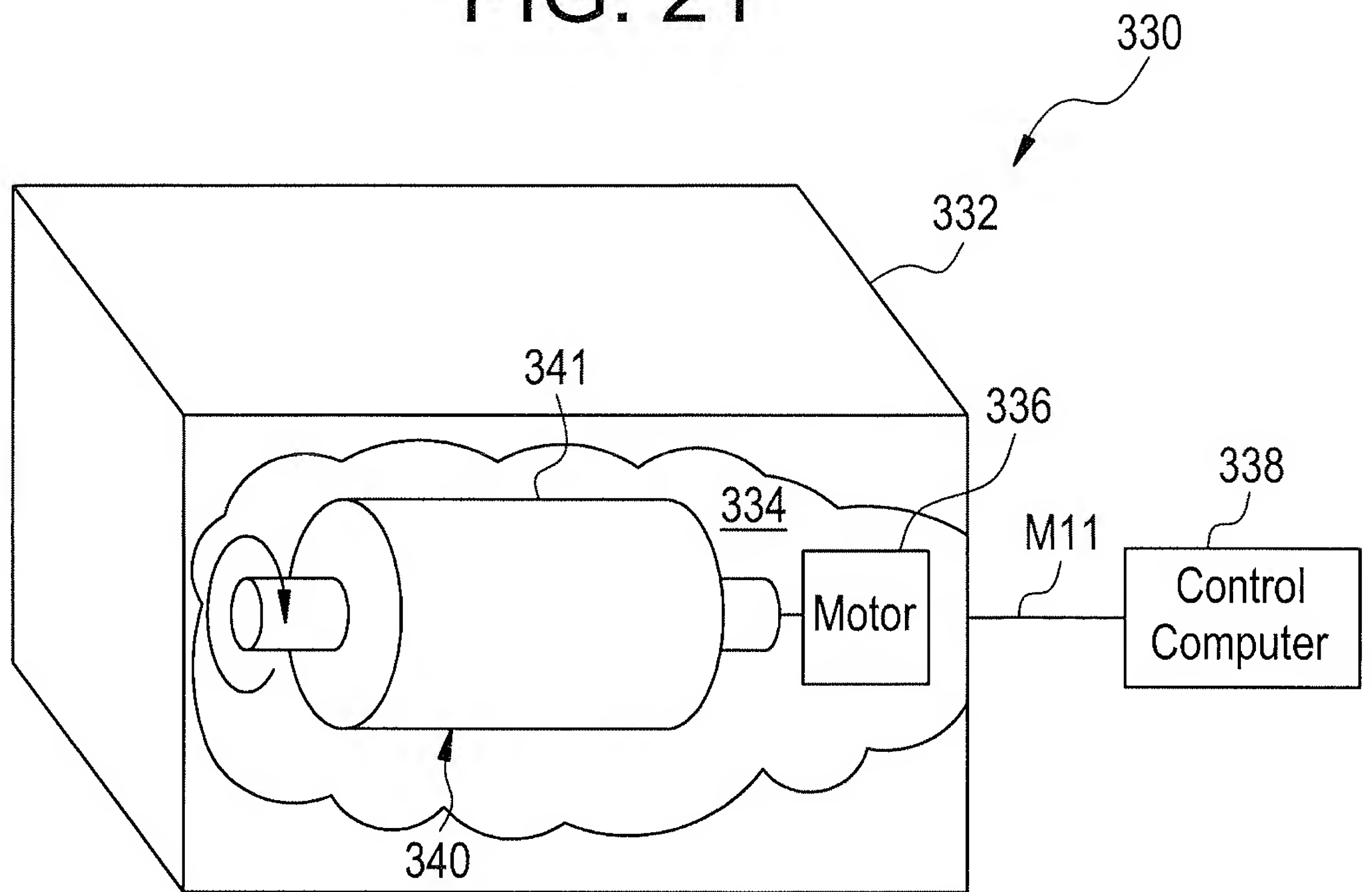


FIG. 22

